

VII.—Notes on Chalcidites, and Descriptions of various new species. By FRANCIS WALKER, F.L.S.

[Continued from vol. ix. p. 43.]

Perilampus maurus, mas. *Ater, antennis apice ferrugineis, tarsis fulvis, alis limpidis.*

Body black: head as broad as the chest, nearly smooth, slightly shining; hind part slightly striated across; front shining, very deeply excavated, extending on each side of the face and of the epistoma which are small and rhomboidal; epistoma larger than the face: mouth pitchy: feelers nearly filiform, black, ferruginous towards their tips which are conical: chest coarsely and deeply punctured, dull, hairy: abdomen smooth, shining; ventral plate dull, slightly striated: legs black, clothed with short tawny hairs; feet tawny: wings colourless, very pubescent; veins pitchy; humerus at some distance from the fore-border, less than half the length of the wing; ulna about one-third of the length of the humerus; radius rather more than half the length of the ulna; cubitus full one-third of the length of the radius; brand small, not furcate. Length of the body $2\frac{1}{2}$ lines; of the wings 5 lines.

Port Natal. In the British Museum.

Eupelmus basicupreus, fem. *Viridis, axillis et scutello nigris, metathoracis lateribus auratis, abdomine cupreo basi micante, antennis nigris, pedibus fulvis, femoribus viridibus, alis sub-fulvis.*

Body green: head very little narrower than the chest, coarsely punctured; crown black; channel for the reception of the first joint of the antennæ very deep, finely squamous, bright green with a blue disc: eyes large: feelers black, slender, filiform, more than half the length of the body; first joint green, very long, slightly curved; second bright green: axillæ and scutellum black; axillæ very large, nearly contiguous; scutellum obovate, with a very slight longitudinal suture: sides of the hind-chest golden green: abdomen cupreous black, nearly spindle-shaped, depressed above, keeled beneath, bright cupreous at the base, rather less than twice the length of the chest; sheaths of the oviduct black, ferruginous towards the tips, extending beyond the abdomen to one-fourth of its length: legs tawny; thighs bluish green; fore-shanks black at the base; a ferruginous band near the base of each hind-shank: wings slightly tinged with tawny; veins tawny; humerus rather more than one-third of the length of the wing, slightly widened towards its tip; ulna a little shorter than the humerus; radius much shorter than the ulna; cubitus about one-fourth of the length of the ulna, slightly curved; brand very small. Length of the body $2\frac{1}{2}$ lines; of the wings $4\frac{1}{2}$ lines.

Para. In the British Museum.

Sparasion Sinense, mas. *Viridi-cyaneum*, abdomine cyaneo-purpureo, antennis pedibusque nigris, femoribus cyaneis, tibiis tarsisque anticis piceis, alis subfuscis.

Body convex, rather hairy : head and chest dark greenish blue, roughly punctured : eyes and eyelets piceous : feelers black, nearly filiform, shorter than the chest ; first joint long, stout, shining ; second short, cup-shaped ; third very long, subclavate ; fourth and following joints to the tenth short, transverse, nearly equal in size, but gradually decreasing in length and breadth towards the tips of the feelers : fore-chest extremely short, forming a narrow line in front of the middle shield, the sutures of whose parapsides are distinct ; scutcheon obconical : hind-chest obconical, declining : breast smoother than the chest ; the punctures being fewer and smaller : petiole very short : abdomen long spindle-shaped, thickly striated, bluish purple, bluish green at the tip, narrower than the chest and about twice its length ; sides nearly smooth or having only a few indistinct punctures : legs black, hairy ; hips and thighs shining, the former dark blue ; fore-shanks and fore-feet piceous : wings slightly brown, somewhat darker along the fore-borders from the middle to the tips ; veins brown. Length of the body 4 lines ; of the wings 6 lines.

Fou-chou-fou, China. In the British Museum.

Smiera torrida, fem. *Fulva nigro varia*, capite antico flavo, antennis nigris subtus ferrugineis, pedibus fulvis, femoribus anterioribus flavis, tibiis posticis nigro vittatis, alis ad costam subcinereis.

Body tawny, roughly punctured, thinly clothed with short tawny hairs : two black spots behind the head ; front and face yellow : feelers black, filiform, ferruginous beneath and at the tips ; first joint tawny : three black stripes on the shield of the middle chest ; the inner one obconical ; the side pair oblique, slightly waved, tapering towards the fore-border ; axillæ black, parted by near one-third of the breadth of the scutcheon, which has a triangular black spot resting on its hind-border : propodeon smooth, shining : petiole slender, cylindrical, a little longer than the propodeon, with a short black stripe on each side : abdomen spindle-shaped, smooth, shining, punctured towards the tip, more than twice the length of the petiole ; metapodeon large ; octoon about half the length of the metapodeon ; ennaton, decaton and protelum together as long as the octoon ; paratelum and telum of equal length, together longer than the octoon ; ventral segments concealed : legs tawny ; anterior thighs yellow ; a black stripe on each hind-hip ; hind-thighs armed beneath with seven teeth whose tips are black ; first and second very small, the other five large ; a black stripe on each hind-shank : wings very pubescent, slightly gray along the fore-border ; veins tawny ; supplementary veins distinct as in other large species ; humerus much more than one-third of the length of the wing ; ulna less than half the length of the humerus ; radius as long as the ulna ; cubitus not more than one-sixth

of the radius; brand very small. Length of the body $4\frac{1}{2}$ lines; of the wings 8 lines.

Para. In the British Museum.

Smiera nigro-rufa, mas. *Rufa, nigro varia, petiolo nigro, abdomine rufo, antennis nigris, alis limpidis.*

Body red, roughly punctured: head black; sides of the front tawny: mouth tawny: feelers black: breast, hind-chest, paraptera, axillæ and sides of the middle chest black: three black stripes on the shield; the side pair broad and oblique; a three-lobed black mark on the scutcheon: petiole black, slender, cylindrical, smooth, shining: abdomen smooth, shining, short, globose, less than twice the length of the chest: legs red; hips black; anterior thighs black at the base; middle shanks striped with brown towards the base; hind-shanks at the base and at the tips and hind-feet black: wings colourless; veins brown; humerus near half the length of the wing; ulna not one-third of the length of the humerus; radius much longer than the ulna; cubitus about one-fourth of the ulna; brand rather large, slightly forked. Length of the body $2\frac{1}{2}$ lines; of the wings 5 lines.

East Indies. In the British Museum.

Callimome cyaneus, Kollar, fem. *Purpureus cyaneo viridique varius, antennis nigris, pedibus fulvis, femoribus purpureis, metatibiis piceis, alis limpidis.*

Fem. Body purple, pubescent, varied with green and blue: feelers black, subclavate, a little shorter than the thorax; first joint fulvous: head and thorax punctured, in structure like the other species of *Callimome*: podoon very short: abdomen purple, smooth, shining, nearly as long as the thorax; metapodoon blue, green at the base: legs fulvous; coxæ and thighs purple; metatibiæ piceous; tips of the tarsi piceous: wings limpid, rather short; nervures fuscous; ulna much shorter than the humerus; radius very short; cubitus a little shorter than the radius; stigma very small; oviduct fulvous, much longer than the abdomen; its sheaths black.

Inhabits Germany.

CHALCEDECTUS, n. g.

Eupelmo affinis, at quoad pedes posticos *Chalcidi* similis.

Chalcedectus maculicornis, fem. *Viridis, cupreo cyaneo et purpureo varius, antennis nigris, articulo 5° supra albo, tarsis piceis, tarsis intermediis nigris basi flavis, alis fusco subnebulosis.*

Body brilliant green, narrow: head a little narrower than the chest: crown narrow; front largely and deeply punctured, with a very deep almost smooth bluish green channel for the reception of the first joint of the feelers; face broad: mouth pitchy: eyes rather large: feelers black, filiform, slender, as long as the chest; first joint very long; second linear, long, nearly half the length of the first; third

and fourth indistinct; fifth white above, a little shorter than the second; the following linear, very compact, successively decreasing in length: chest spindle-shaped: fore-chest broader than long, rounded in front, much lower than the middle-chest, very finely shagreened: shield and scutcheon of the middle-chest very largely and deeply punctured: shield rather flat, adorned with a broad coppery band whose edges are tinged with blue and purple; sutures of the parapsides distinct; axillæ parted by about one-third of the breadth of the chest; scutcheon obconical, with a coppery spot at its base: hind-chest small, subquadrate, finely punctured, with two or three slight cross ridges: propodeon and podoon short: abdomen lanceolate, longer and a little narrower than the chest, slightly pubescent, transversely and very finely striated, almost flat on the disc towards the base, adorned above with coppery purple and blue colour; metapodeon of moderate length; octoon shorter; ennaton longer; decaton shorter; the three following segments short; underside finely punctured, not keeled, dorsal segments approximate beneath, parted only by two linear, parallel, very slender plates which extend along the whole length of the body: legs green, slightly pubescent, adorned with blue and purple colour: fore-thighs rather thick; fore-shanks purple, armed at the tips with a slender curved spine; fore-feet pitchy, tawny at the base; middle thigh long and slender, grooved beneath; tip of each middle shank armed with a stout straight tawny spine; middle feet black, pale yellow at the base; hind-legs formed like those of *Chalcis*; hips long; thighs very large, armed beneath with seven oblique teeth, those towards the tips are small; shanks very much curved, widening from the base to the tips; hind-feet pitchy, with a slight metallic tinge: wings almost colourless, fore-wings slightly clouded with brown in the disks and with gray at the tips; veins black; humerus much more than one-third of the length of the wing; ulna about one-third of the length of the humerus; radius nearly as long as the humerus, extending almost to the tip of the wing; cubitus straight, very slanting, less than one-fourth of the length of the radius, widening from its source to the brand which is small; a few supplementary veins in the disk, as is usual in the large species of the tribe. Length of the body 5 lines; of the wings 6 lines.

Para. In the British Museum.

This is one of the tropical forms whose characters are more compound or complicated than those of any genera which inhabit more temperate regions; and may be considered either as a connecting link between families, or as a common and governing centre, representing various remote groups, and associating them together. It comes between the *Pteromalidæ* and the *Eupelmidæ*, and is one of the *Cleonymidæ*, and is most allied to *Lycisca*; but it has the head of *Perilampus*, the thoracic sculpture of the *Perilampidæ* and the *Eurytomidæ*, and the hind-legs of the *Leucospidæ* and of the *Chalcidæ*.